

1. A method of registering a user with a communication system, the method comprising:

in a user device, receiving a user registration input, and in response, automatically transferring call tones to a telephone to initiate a telephone call and transferring user identification tones over the telephone call;

5 in a control system, answering the telephone call and receiving the user identification tones and a location indicator, and in response, processing the user identification tones and the location indicator to transfer a route instruction to direct communications for the user to a communication device associated with the location indicator.

10 2. The method of claim 1 wherein transferring user identification tones over the telephone call comprises:

in the control system, transferring answer tones over the telephone call in response to answering the telephone call; and

15 in the user device, receiving the answer tones over the telephone call, and in response, automatically transferring the user identification tones over the telephone call.

20 3. The method of claim 1 wherein transferring the user identification tones over the telephone call comprises waiting for a time period after transferring the call tones for the telephone call to be established and then transferring the user identification tones over the telephone call.

4. The method of claim 1 wherein receiving the location indicator in the control system comprises receiving Automatic Number Identification (ANI) from a telephone network indicating a telephone number of the telephone.

5 5. The method of claim 1 wherein receiving the location indicator in the control system comprises:

in the control system, transferring location request tones over the telephone call if Automatic Number Identification (ANI) is not available;

in the user device, receiving the location request tones, and in response, indicating to the user that input of the location indicator is required; and

in the control system, receiving location tones from the telephone representing the location indicator.

6. The method of claim 5 further comprising, in the user device, receiving a user location input, and in response, transferring the location tones to the telephone.

7. The method of claim 5 wherein the location indicator comprises a telephone number of the telephone.

8 The method of claim 1 further comprising:

in the control system, processing the user identification tones and the location indicator to transfer acceptance tones over the telephone call; and

5 in the user device, receiving the acceptance tones over the telephone call, and in response, indicating successful registration to the user.

9 The method of claim 1 wherein the communication device comprises another telephone.

10 10. The method of claim 1 wherein the communication device comprises a computer.

11. The method of claim 1 wherein the communication device comprises a video terminal.

15 12. The method of claim 1 wherein the communication device comprises a facsimile machine.

13. The method of claim 1 wherein the communication device comprises a LAN printer.

20 14. The method of claim 1 wherein the communication device comprises a network drive.

15. A method of operating a user device to register a user with a communication system,  
the method comprising:

receiving a user registration input in a device controller, and in response,  
transferring a call signal to a tone generator and transferring a user identification signal to  
5 the tone generator;

receiving the call signal in the tone generator, and in response, transferring call  
tones from the user device;

receiving the user identification signal in the tone generator, and in response,  
transferring user identification tones from the user device;

16. The method of claim 15 wherein transferring the user identification signal to the tone  
generator further comprises:

receiving answer tones in the tone detector, and in response, transferring an  
answer signal to the device controller; and

receiving the answer signal in the device controller, and in response, transferring  
the user identification signal to the tone generator.

17. The method of claim 15 further comprising:

receiving acceptance tones in the tone detector, and in response, transferring an acceptance signal to the device controller;

5 receiving the acceptance signal in the device controller, and in response, transferring an indication signal to an indicator; and

receiving the indication signal in the indicator, and in response, indicating successful registration to the user.

18. The method of claim 15 further comprising:

10 receiving location request tones in the tone detector, and in response, transferring a location request signal to the device controller;

receiving the location request signal in the device controller, and in response, transferring an indication signal to the indicator; and

15 receiving the indication signal in the indicator, and in response, indicating to the user that input of a location indicator is required.

19. The method of claim 18 wherein the location indicator comprises a telephone number of the telephone.

20. The method of claim 18 further comprising:

receiving a user location input representing the location indicator in the device controller, and in response, transferring a location signal to the tone generator;

receiving the location signal in the tone generator, and in response, transferring  
5 location tones representing the location indicator from the user device.

21. A communication system for registering a user, the communication system comprising:

a user device configured to receive a user registration input, and in response, automatically transfer call tones to a telephone to initiate a telephone call, and to transfer user identification tones over the telephone call; and

a control system configured to answer the telephone call and receive the user identification tones and a location indicator, and in response, process the user identification tones and the location indicator to transfer a route instruction to direct communications for the user to a communication device associated with the location indicator.

22. The communication system of claim 21 wherein:

the control system is configured to transfer answer tones over the telephone call in response to answering the telephone call;

the user device is configured to receive the answer tones over the telephone call, and in response, automatically transfer the user identification tones over the telephone call.

23. The communication system of claim 21 wherein the user device is configured to wait for a time period after transferring the call tones for the telephone call to be established and then transfer the user identification tones over the telephone call.

24. The communication system of claim 21 wherein the control system is configured to receive Automatic Number Identification (ANI) from a telephone network indicating a telephone number of the telephone as the location indicator.

5 25. The communication system of claim 21 wherein:

the control system is configured to transfer location request tones over the telephone call if Automatic Number Identification (ANI) is not available, and to receive location tones from the telephone representing the location indicator; and

the user device is configured to receive the location request tones, and in response, indicate to the user that input of the location indicator is required.

26. The communication system of claim 25 wherein the user device is configured to receive a user location input, and in response, transfer the location tones to the telephone.

15 27. The communication system of claim 25 wherein the location indicator comprises a telephone number of the telephone.

28. The communication system of claim 21 wherein:

the control system is configured to process the user identification tones and the location indicator to transfer acceptance tones over the telephone call; and

the user device is configured to receive the acceptance tones over the telephone call, and in response, indicate successful registration to the user.



29. The communication system of claim 21 wherein the communication device comprises another telephone.

5 30. The communication system of claim 21 wherein the communication device comprises a computer.

31. The communication system of claim 21 wherein the communication device comprises a video terminal.

10 32. The communication system of claim 21 wherein the communication device comprises a facsimile machine.

33. The communication system of claim 21 wherein the communication device comprises a LAN printer.

15 34. The communication system of claim 21 wherein the communication device comprises a network drive.

35. A user device for registering a user with a communication system, the user device comprising:

a device controller configured to receive a user registration input, and in response, transfer a call signal and transfer a user identification signal; and

5 a tone generator configured to receive the call signal, and in response, transfer call tones from the user device, to receive the user identification signal, and in response, transfer user identification tones from the user device.

36. The user device of claim 35 wherein:

10 the tone detector is configured to receive answer tones, and in response, transfer an answer signal to the device controller; and

the device controller is configured to receive the answer signal, and in response, transfer the user identification signal to the tone generator.

15 37. The user device of claim 35 wherein:

the tone detector is configured to receive acceptance tones, and in response, transfer an acceptance signal to the device controller;

the device controller is configured to receive the acceptance signal, and in response, transfer an indication signal; and further comprising

20 an indicator configured to receive the indication signal, and in response, indicate successful registration to the user.

38. The user device of claim 35 wherein:

the tone detector is configured to receive location request tones, and in response, transfer a location request signal to the device controller;

the device controller is configured to receive the location request signal, and in response, transfer an indication signal; and further comprising

an indicator configured to receive the indication signal, and in response, indicate to the user that input of a location indicator is required.

39. The user device of claim 38 wherein the location indicator comprises a telephone number of the telephone.

40. The user device of claim 38 wherein:

the device controller is configured to receive a user location input representing the location indicator, and in response, transfer a location signal to the tone generator;

the tone generator is configured to receive the location signal, and in response, transfer location tones representing the location indicator from the user device.